

SEQUENCE LISTING

(1) GENERAL INFORMATION:

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(ii) TITLE OF INVENTION: Enzymatic Array and Process of Making Same

(iii) NUMBER OF SEQUENCES: 29

- (iv) COMPUTER READABLE FORM:
 (A) MEDIUM TYPE: Floppy disk
 (B) COMPUTER: IBM PC compatible
 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
- (v) CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US 08/559,968
- (vi) PRIOR APPLICATION DATA:
 (A) APPLICATION NUMBER: US 60/005701
 (B) FILING DATE: 17-OCT-1995

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TGCAGCTCGT GTTCTGTACG GTGACGTTAA CGACGACGGT AAAGTTAACT CCACCGACCT 60

(2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GACCCTGCTG AAACGTTACG TTCTGAAAGC TGTTTCCACC CTGCCGTCCT CCAAAGCTGA 60

(2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 60 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

AAAAAACGCT GACGTTAACC GTGACGGTCG TGTAACTCC TCCGACGTTA CCATCCTGTC

60

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 41 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CCGTTACCTG ATCCGTGTTA TCGAAAACT GCCGATCTAA C

41

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 60 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

TGCAGTTAGA TCGGCAGTTT TTCGATAACA CGGATCAGGT AACGGGACAG GATGGTAACG

60

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 60 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TCGGAGGAGT TAACACGACC GTCACGGTTA ACGTCAGCGT TTTTTCAGC TTTGGAGGAC

60

(2) INFORMATION FOR SEQ ID NO: 7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GGCAGGGTGG AAACAGCTTT CAGAACGTAA CGTTTCAGCA GGGTCAGGTC GGTGGAGTTA 60

(2) INFORMATION FOR SEQ ID NO: 8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 41 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

ACTTTACCGT CGTCGTTAAC GTCACCGTAC AGAACACGAG C 41

(2) INFORMATION FOR SEQ ID NO: 9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

CATGCAACTC TGCAGCTCGT GTTCTGTACG GTGACGTTAA 40

(2) INFORMATION FOR SEQ ID NO: 10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

TACCAGATCC TGCAGTTAGA TCGGCAGTTT TTCGATAACA

40

(2) INFORMATION FOR SEQ ID NO: 11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

TGCAGCTCGT AAAGTGTACG GTGACGTTAA CGACGACGGT AAAGTTAACT CCACCGACGC

60

(2) INFORMATION FOR SEQ ID NO: 12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

TGTTGCTCTG AAACGTTACG TTCTGCGTTC CGGTATCTCC ATCAACACCG ACAACGCGGA

60

(2) INFORMATION FOR SEQ ID NO: 13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

CCTGAACGAA GACGGTCGTG TTAAGTCCAC CGACCTGGGT ATCCTGAAAC GTTACATCCT

60

(2) INFORMATION FOR SEQ ID NO: 14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GAAAGAAATC GACACCCTGC CGTACAAAAA CTAAC

35

(2) INFORMATION FOR SEQ ID NO: 15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

TGCAGTTAGT TTTTGTACGG CAGGGTGTCTG ATTTCTTTCA GGATGTAACG TTTCAGGATA

60

(2) INFORMATION FOR SEQ ID NO: 16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

CCCAGGTCGG TGGAGTTAAC ACGACCGTCT TCGTTCAGGT CCGCGTTGTC GGTGTTGATG

60

(2) INFORMATION FOR SEQ ID NO: 17:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GAGATACCGG AACGCAGAAC GTAACGTTTC AGAGCAACAG CGTCGGTGGA GTTAACTTTA

60

(2) INFORMATION FOR SEQ ID NO: 18:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

CCGTCGTCGT TAACGTCACC GTACAGTTTA CGAGC

35

(2) INFORMATION FOR SEQ ID NO: 19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CATGCATCAC TGCAGCTCGT AAAGTGTACG GTGACGTTAA

40

(2) INFORMATION FOR SEQ ID NO: 20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

TCAGACCTAC TGCAGTTAGT TTTTGTACGG CAGGGTGTCTG

40

(2) INFORMATION FOR SEQ ID NO: 21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

CGAGCGCCGC GGGCTTGTTT TGTACGGTGA CGTTAACGAC GAC

43

(2) INFORMATION FOR SEQ ID NO: 22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

AGCCAGCCGC GGTTAGATCG GCAGTTTTTC GATAACACGG ATC

43

(2) INFORMATION FOR SEQ ID NO: 23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

CGAGCGCCGC GGGCTTAAAC TGTACGGTGA CGTTAACGAC GAC

43

(2) INFORMATION FOR SEQ ID NO: 24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

AGCCAGCCGC GGTTAGTTTT TGTACGGCAG GGTGTCGATT TCT

43

(2) INFORMATION FOR SEQ ID NO: 25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GAAATACCTA TACATATGAA AGGAGTG

27

(2) INFORMATION FOR SEQ ID NO: 26:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

TGGATGGTAT ACCACTGAAT CTTAC

25

(2) INFORMATION FOR SEQ ID NO: 27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

Val Leu Tyr Gly Asp Val Asn Asp Asp Gly Lys Val Asn Ser Thr Asp
 1 5 10 15
 Leu Thr Leu Leu Lys Arg Tyr Val Leu Lys Ala Val Ser Thr Leu Pro
 20 25 30
 Ser Ser Lys Ala Glu Lys Asn Ala Asp Val Asn Arg Asp Gly Arg Val
 35 40 45
 Asn Ser Ser Asp Val Thr Ile Leu Ser Arg Tyr Leu Ile Arg Val Ile
 50 55 60
 Glu Lys Leu Pro Ile
 65

(2) INFORMATION FOR SEQ ID NO: 28:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 67 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

Lys Leu Tyr Gly Asp Val Asn Asp Asp Gly Lys Val Asn Ser Thr Asp
 1 5 10 15
 Ala Val Ala Leu Lys Arg Tyr Val Leu Arg Ser Gly Ile Ser Ile Asn
 20 25 30
 Thr Asp Asn Ala Asp Leu Asn Glu Asp Gly Arg Val Asn Ser Thr Asp
 35 40 45
 Leu Gly Ile Leu Lys Arg Tyr Ile Leu Lys Glu Ile Asp Thr Leu Pro
 50 55 60
 Tyr Lys Asn
 65

(2) INFORMATION FOR SEQ ID NO: 29:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 531 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

Gly Val Pro Ser Lys Gly Met Ala Asn Cys Asp Phe Val Leu Gly Tyr
 1 5 10 15
 Asp Pro Asn Val Leu Glu Val Thr Glu Val Lys Pro Gly Ser Ile Ile
 20 25 30
 Lys Asp Pro Asp Pro Ser Lys Ser Phe Asp Ser Ala Ile Tyr Pro Asp
 35 40 45
 Arg Lys Met Ile Val Phe Leu Phe Ala Glu Asp Ser Gly Arg Gly Thr
 50 55 60
 Tyr Ala Ile Thr Gln Asp Gly Val Phe Ala Thr Ile Val Ala Thr Val
 65 70 75 80
 Lys Ser Ala Ala Ala Ala Pro Ile Thr Leu Leu Glu Val Gly Ala Phe
 85 90 95
 Ala Asp Asn Asp Leu Val Glu Ile Ser Thr Thr Phe Val Ala Gly Gly
 100 105 110
 Val Asn Leu Gly Ser Ser Val Pro Thr Thr Gln Pro Asn Val Pro Ser
 115 120 125
 Asp Gly Val Val Val Glu Ile Gly Lys Val Thr Gly Ser Val Gly Thr
 130 135 140
 Thr Val Glu Ile Pro Val Tyr Phe Arg Gly Val Pro Ser Lys Gly Ile
 145 150 155 160
 Ala Asn Cys Asp Phe Val Phe Arg Tyr Asp Pro Asn Val Leu Glu Ile
 165 170 175
 Ile Gly Ile Asp Pro Gly Asp Ile Ile Val Asp Pro Asn Pro Thr Lys
 180 185 190
 Ser Phe Asp Thr Ala Ile Tyr Pro Asp Arg Lys Ile Ile Val Phe Leu
 195 200 205
 Phe Ala Glu Asp Ser Gly Thr Gly Ala Tyr Ala Ile Thr Lys Asp Gly
 210 215 220
 Val Phe Ala Lys Ile Arg Ala Thr Val Lys Ser Ser Ala Pro Gly Tyr
 225 230 235 240
 Ile Thr Phe Asp Glu Val Gly Gly Phe Ala Asp Asn Asp Leu Val Glu
 245 250 255
 Gln Lys Val Ser Phe Ile Asp Gly Gly Val Asn Val Gly Asn Ala Thr
 260 265 270
 Pro Thr Lys Gly Ala Thr Pro Thr Asn Thr Ala Thr Pro Thr Lys Ser
 275 280 285
 Ala Thr Ala Thr Pro Thr Arg Pro Ser Val Pro Thr Asn Thr Pro Thr
 290 295 300

Asn Thr Pro Ala Asn Thr Pro Val Ser Gly Asn Leu Lys Val Glu Phe
 305 310 315 320
 Tyr Asn Ser Asn Pro Ser Asp Thr Thr Asn Ser Ile Asn Pro Gln Phe
 325 330 335
 Lys Val Thr Asn Thr Gly Ser Ser Ala Ile Asp Leu Ser Lys Leu Thr
 340 345 350
 Leu Arg Tyr Tyr Tyr Thr Val Asp Gly Gln Lys Asp Gln Thr Phe Trp
 355 360 365
 Cys Asp His Ala Ala Ile Ile Gly Ser Asn Gly Ser Tyr Asn Gly Ile
 370 375 380
 Thr Ser Asn Val Lys Gly Thr Phe Val Lys Met Ser Ser Ser Thr Asn
 385 390 395 400
 Asn Ala Asp Thr Tyr Leu Glu Ile Ser Phe Thr Gly Gly Thr Leu Glu
 405 410 415
 Pro Gly Ala His Val Gln Ile Gln Gly Arg Phe Ala Lys Asn Asp Trp
 420 425 430
 Ser Asn Tyr Thr Gln Ser Asn Asp Tyr Ser Phe Lys Ser Ala Ser Gln
 435 440 445
 Phe Val Glu Trp Asp Gln Val Thr Ala Tyr Leu Asn Gly Val Leu Val
 450 455 460
 Trp Gly Lys Glu Pro Gly Gly Ser Val Val Pro Ser Thr Gln Pro Val
 465 470 475 480
 Thr Thr Pro Pro Ala Thr Thr Lys Pro Pro Ala Thr Thr Lys Pro Pro
 485 490 495
 Ala Thr Thr Ile Pro Pro Ser Asp Asp Pro Asn Ala Ile Lys Ile Lys
 500 505 510
 Val Asp Thr Val Asn Ala Lys Pro Gly Asp Thr Val Asn Ile Pro Val
 515 520 525
 Arg Phe Ser
 530